

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG2006/000395

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl.

**H01L 33/00** (2006.01) **H01L 21/00** (2006.01) **H01L 27/00** (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DWPI: semiconductor? AND (metal+ (w) +layer?) AND (anneal+ or heat+) AND fabricat+ [and similar terms corresponding to these]

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0104395 A (HAGIMOTO <i>et. al.</i> ) 3 June 2004 Whole document and in particular abstract, Figures, paragraphs [0025]-[0028], [0276]-[0280], [0313]	1-34
X, Y	US 6365429 B (KNEISSL <i>et. al.</i> ) 2 April 2002 Whole document and in particular Figures, col. 10, line 11+	I, 18
Y	US 5405804 A (YABE) 11 April 1995 Whole document and in particular Fig. 5, col. 5, line 6-8	1, 17, 18, 34



Further documents are listed in the continuation of Box C



See patent family annex

* "A" Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
16 February 2007

Date of mailing of the international search report

26 FEB 2007

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6420242 B (CHEUNG <i>et. al.</i> ) 16 July 2002 Whole document and in particular Fig. 2-5 and col. 4	1, 17, 18, 34
Y	EP 1139409 A (AGERE SYSTEMS GUARDIAN CORPORATION) 4 October 2001 Whole document and in particular paragraphs [0043]-[0045]	1, 17, 18, 34
A	US 2002/0179910 A (SLATER, JR) 5 December 2002 Whole document	1-34
A	US 6573537 B (STEIGERWALD <i>et. al.</i> ) 3 June 2003 Whole document	1-34
A	WO 2005/088743 A (TINGGI TECHNOLOGIES PRIVATE LIMITED) 22 September 2005 Whole document	1-34
Any of the Y documents can be combined with US 6365429.		

### Information on patent family members

**PCT/SG2006/000395**

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member		
US	2004104395	JP 2004207508 JP 2004235506	JP 2004228540 JP 2004235581	JP 2004235505 JP 2005079298	
US	6365429	JP 2000196197 US 6757314	US 6448102 US 2004105471	US 6744800	
US	5405804	JP 6310500			
US	6420242	US 6071795			
EP	1139409	JP 2001313390	KR 2001008572	US 2007001243	
US	2002179910	AU 63916/99 CN 1323446 EP 1440460 US 6803243 US 2004171204	CA 2343416 CN 1579008 KR 2005003517 US 6884644 WO 0016382	CA 2465228 EP 1125320 MX PA01002751 US 6909119 WO 03038877	
US	6573537	AU 27389/01 JP 2001237458 WO 0147039	DE 10213701 JP 2002335014	EP 1161772 US 6514782	
WO	2005088743	EP 1730790			
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					